

IC Application Note No. C-91

Title: Magnesium, manganese and zinc in zinc sulfate solution

Summary: Determination of magnesium, manganese and zinc in a zinc sulfate solution applying cation chromatography with direct conductivity detection.

Sample: Zinc sulfate solution

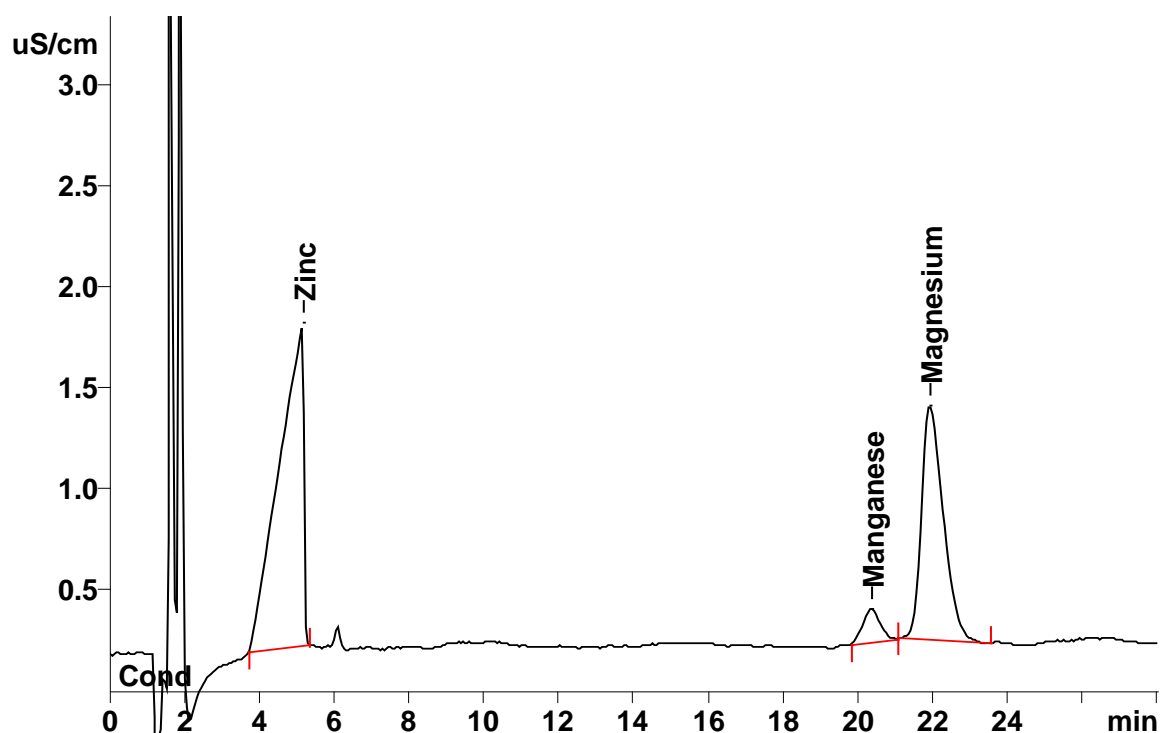
Sample Preparation: Dilution 1 : 5000 with 1 mmol/L nitric acid

Column: 6.1010.230 Metrosep C 2 – 250

Eluent: 2.0 mmol/L nitric acid
0.072 mmol/L dipicolinic acid

Flow: 1.5 mL/min

Injection Volume: 20 μ L



Results:	Zinc	Manganese	Magnesium
Concentration in dilution (mg/L)	30.2	0.84	2.65
Concentration in the sample (g/L)	150.9	4.21	13.2